



WASHINGTON DEPARTMENT OF FISH AND WILDLIFE

SUMMIT LAKE ACCESS SITE RENOVATION TN:A562:12-1

INDEX

SHEET NO.

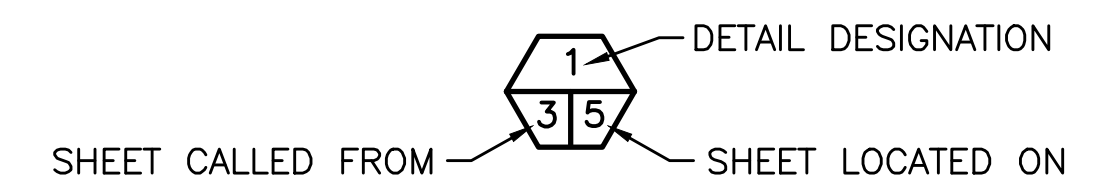
CIVIL

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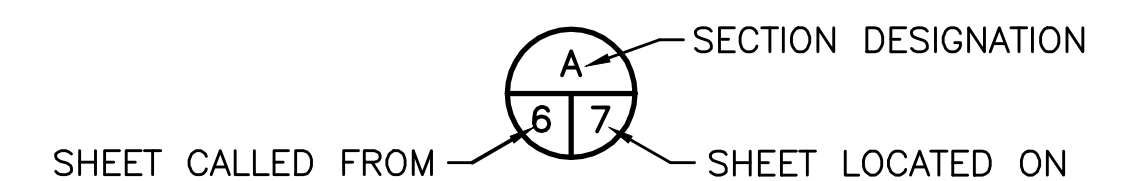
ABBREVIATIONS

ALUM	-	ALUMINUM
L	-	ANGLE
APPROX.	-	APPROXIMATELY
BM	-	BENCH MARK
CL	-	CENTERLINE
CLR.	-	CLEARANCE
CMP	-	CORRUGATED METAL PIPE
CONC	-	CONCRETE
CPP	-	CORRUGATED POLYPROPYLENE PIPE
Ø	-	DIAMETER
ELEV	-	ELEVATION
EX.	-	EXISTING
EP	-	EDGE OF PAVEMENT
F.B.	-	FLAT BAR
FTG	-	FOOTING
GALV	-	GALVANIZED
GA.	-	GAUGE
HDPE	-	HIGH DENSITY POLYETHYLENE
HSS	-	STRUCTURAL TUBING
ID	-	INSIDE DIAMETER
IE	-	INVERT ELEVATION
LG	-	LONG
M.B.	-	MACHINE BOLT
MFG.	-	MANUFACTURER'S
MIN	-	MINIMUM
MISC.	-	MISCELLANEOUS
MOD.	-	MODEL
OC	-	ON CENTER
OSB	-	ORIENTED STRAND BOARD
OD	-	OUTSIDE DIAMETER
PAV'T	-	ASPHALT CONCRETE PAVEMENT
PL	-	PLATE
PT	-	PRESSURE TREATED
REQ'D	-	REQUIRED
SEC.	-	SECTION
S.F.	-	SQUARE FEET
SHT.	-	SHEET
SPEC'S.	-	PROJECT SPECIFICATIONS
STD	-	STANDARD
S.S.	-	STAINLESS STEEL
TESC	-	TEMPORARY EROSION & SEDIMENT CONTROL
TYP	-	TYPICAL
W.S.	-	WATER SURFACE
WSDOT	-	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

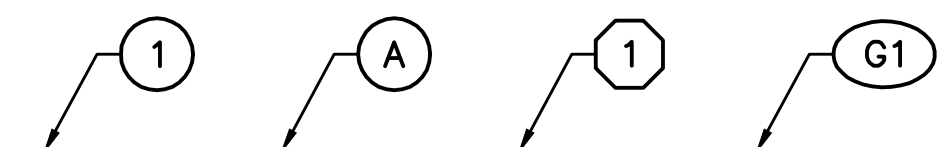
SHEET SYMBOLS



DETAIL



SECTION



NOTE REFERENCE

REFERENCE DESIGNATION TO NOTE
APPEARING ON SAME SHEET OR A
PART OR MATERIAL IN A SCHEDULE



PROJECT NO.

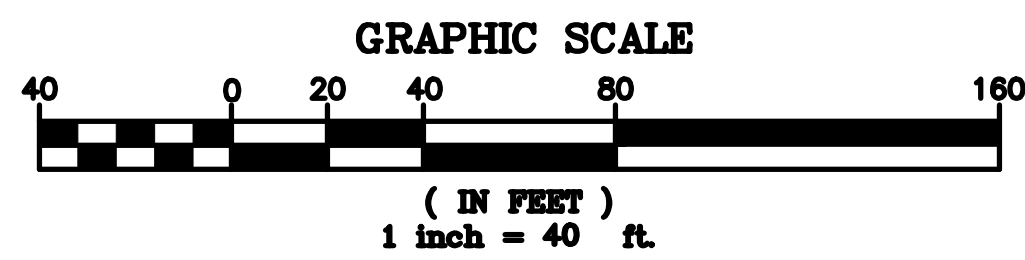
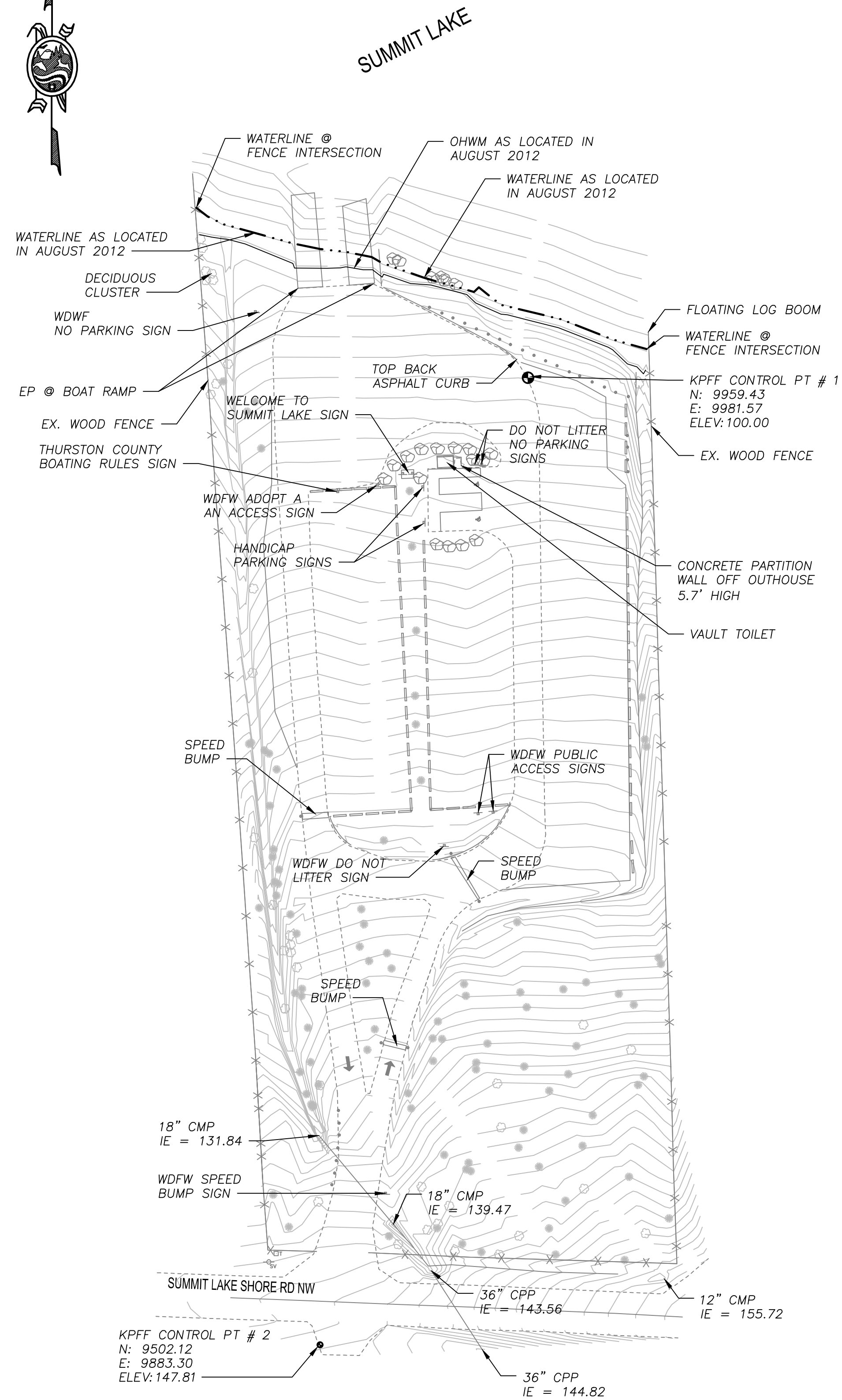
TN:A562:12-1

SHEET

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OF

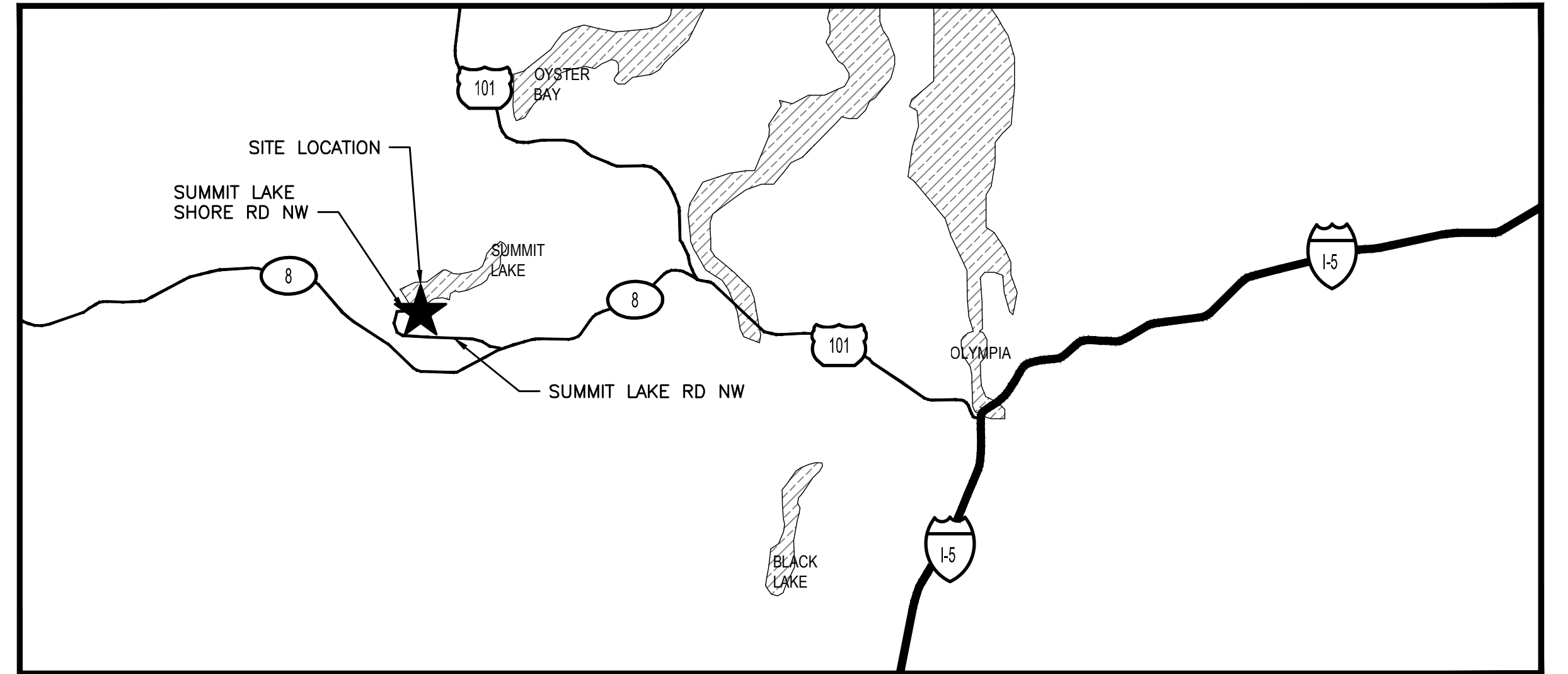
10



EXISTING SITE PLAN
SCALE: 1" = 40'



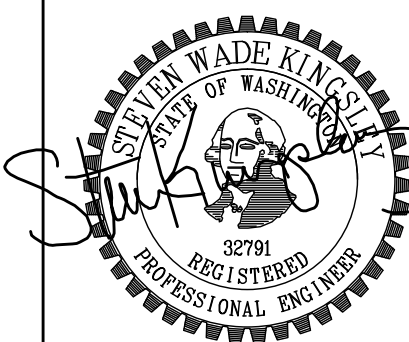
STATE MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE

kpff Consulting Engineers
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150
Fax (253) 396-0162

WASHINGTON STATE
DEPARTMENT OF FISH AND WILDLIFE



SYM	DATE	REVISION DESCRIPTION	BY
APPROVED AND RELEASED FOR CONSTRUCTION			
CHIEF ENGINEER		DATE:	
PROGRAM		DATE:	

0	1"
BAR MEASURES ONE INCH ON ORIGINAL DRAWINGS	
DESIGNED BY	MRK
CHECKED BY	SWK
DRAWN BY	MRK
DATE	01/31/13

SUMMIT LAKE, ACCESS
SITE RENOVATION
EXISTING SITE PLAN & VICINITY MAP

PROJECT NO. TN:A562:12-1	
SHEET 2	OF 10

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GENERAL NOTES

- BEFORE ANY CONSTRUCTION OR DEVELOPMENT ACTIVITY, A PRE-CONSTRUCTION MEETING MUST BE HELD BETWEEN THE COUNTY, WDFW AND THE CONTRACTOR.
- A COPY OF THESE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- GRADING ACTIVITIES (SITE ALTERATION) ARE LIMITED TO THE HOURS OF 7 A.M. TO 7 P.M. MONDAY THROUGH SATURDAY AND 10 A.M. TO 5 P.M. ON SUNDAY, UNLESS OTHERWISE APPROVED WITH A WRITTEN DECISION BY THE REVIEWING AGENCY.
- IT SHALL BE THE APPLICANT'S/CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL CONSTRUCTION EASEMENTS NECESSARY BEFORE INITIATING OFF-SITE WORK. EASEMENTS REQUIRE REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
- ALL UTILITY TRENCHES AND ROADWAY SUBGRADE SHALL BE BACKFILLED AND COMPACTED TO 95 PERCENT DENSITY, STANDARD PROCTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH, AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACTOR. ANY WORK WITHIN THE TRAVELED RIGHT-OF-WAY THAT MAY INTERRUPT NORMAL TRAFFIC FLOW SHALL REQUIRE AT LEAST ONE FLAGGER FOR EACH LANE OF TRAFFIC AFFECTED. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SHALL APPLY. WORK IN RIGHT-OF-WAY IS NOT AUTHORIZED UNTIL A TRAFFIC CONTROL PLAN IS APPROVED BY THURSTON COUNTY.

SURVEY NOTES:

- BASIS OF BEARING IS ASSUMED.
- VERTICAL DATUM IS ASSUMED.
- ASSUMPTIONS ARE BASED OFF OF KPFF CONTROL PT #1 AND KPFF CONTROL POINT #2.
- BASE MAP HAS BEEN DEVELOPED FROM TOPOGRAPHIC SURVEY PERFORMED BY KPFF CONSULTING ENGINEERS IN AUGUST 2012.
- UNDERGROUND UTILITIES ARE NOT A PART OF THIS SURVEY, ONLY SURFACE FEATURE ARE SHOWN.

UTILITY NOTES:

- THE EXISTENCE, LOCATION AND CHARACTERISTICS OF UNDERGROUND UTILITIES CONDUITS AND PIPES SHOWN ON THESE PLANS ARE NOT SHOWN. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID UTILITY INFORMATION. THE CONTRACTOR SHALL POTHOLE OR OTHERWISE CONFIRM CONDITIONS PRIOR TO CONSTRUCTION.
- IF CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND SHALL NOT BEGIN CONSTRUCTION UNTIL THE CHANGED CONDITIONS HAVE BEEN EVALUATED.
- THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINE CONDUITS OR PIPELINES SHOWN AND ANY OTHER IN-SERVICE LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
- CALL THE UNDERGROUND LOCATOR LINE (1-800-424-5555) A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

STORMWATER NOTES:

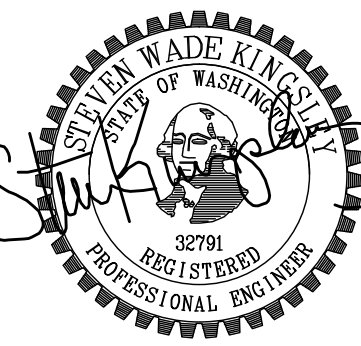
- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH COUNTY OF THURSTON STANDARDS, WSDFW STANDARDS AND THE MOST CURRENT COPY OF THE STATE OF WASHINGTON STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION (WSDOT/APWA).
- TEMPORARY EROSION /WATER POLLUTION PREVENTION MEASURES SHALL BE REQUIRED IN ACCORDANCE WITH WSDOT SECTION 1-07.15, AS MODIFIED BY THE APWA SUPPLEMENT, OF THE CURRENT STATE OF WASHINGTON STANDARD SPECIFICATIONS. SHOULD THE TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES NOT PROVE ADEQUATE TO CONTROL EROSION AND SEDIMENTATION, THE APPLICANT/CONTRACTOR SHALL INSTALL ADDITIONAL FACILITIES AS NECESSARY TO PROTECT ADJACENT PROPERTIES, SENSITIVE AREAS, NATURAL WATER COURSES, AND/OR STORM DRAINAGE SYSTEMS.
- ALL EROSION CONTROL AND STORMWATER FACILITIES SHALL BE REGULARLY INSPECTED AND MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION.

GENERAL EXCAVATION NOTES

- THE EXISTENCE, LOCATION AND CHARACTERISTICS OF UNDERGROUND UTILITIES SHOWN ON THESE PLANS HAS BEEN OBTAINED FROM A REVIEW OF AVAILABLE RECORD DATA. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID UTILITY INFORMATION. THE CONTRACTOR SHALL POTHOLE OR OTHERWISE CONFIRM CONDITIONS. IF CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND SHALL NOT BEGIN CONSTRUCTION UNTIL THE CHANGED CONDITIONS HAVE BEEN EVALUATED. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.

kpff Consulting Engineers
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150
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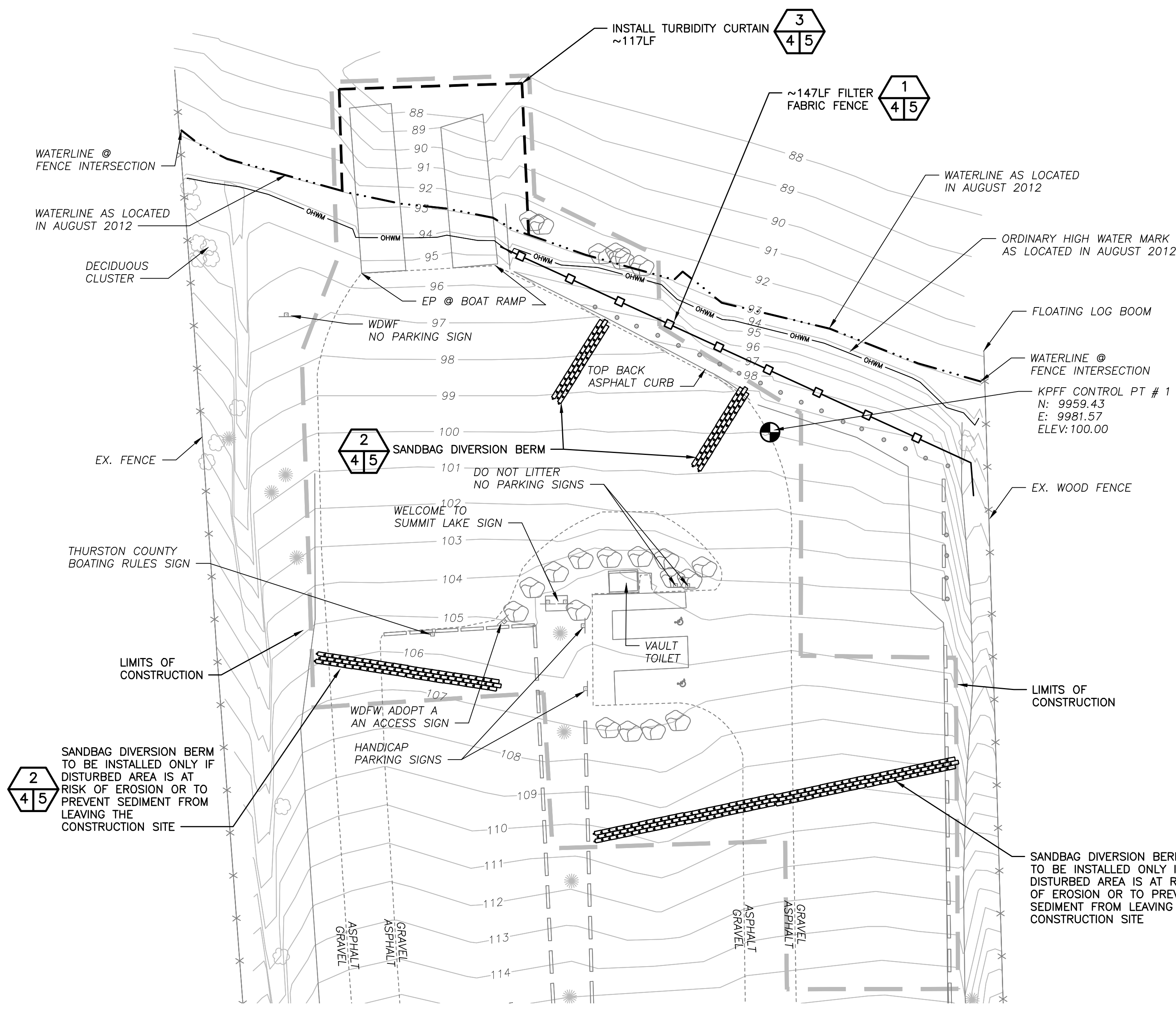
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APPROVED AND RELEASED FOR CONSTRUCTION			
CHIEF ENGINEER		DATE:	
PROGRAM		DATE:	

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BAR MEASURES ONE INCH ON ORIGINAL DRAWINGS	
DESIGNED BY	MRK
CHECKED BY	SWK
DRAWN BY	MRK
DATE	01/31/13

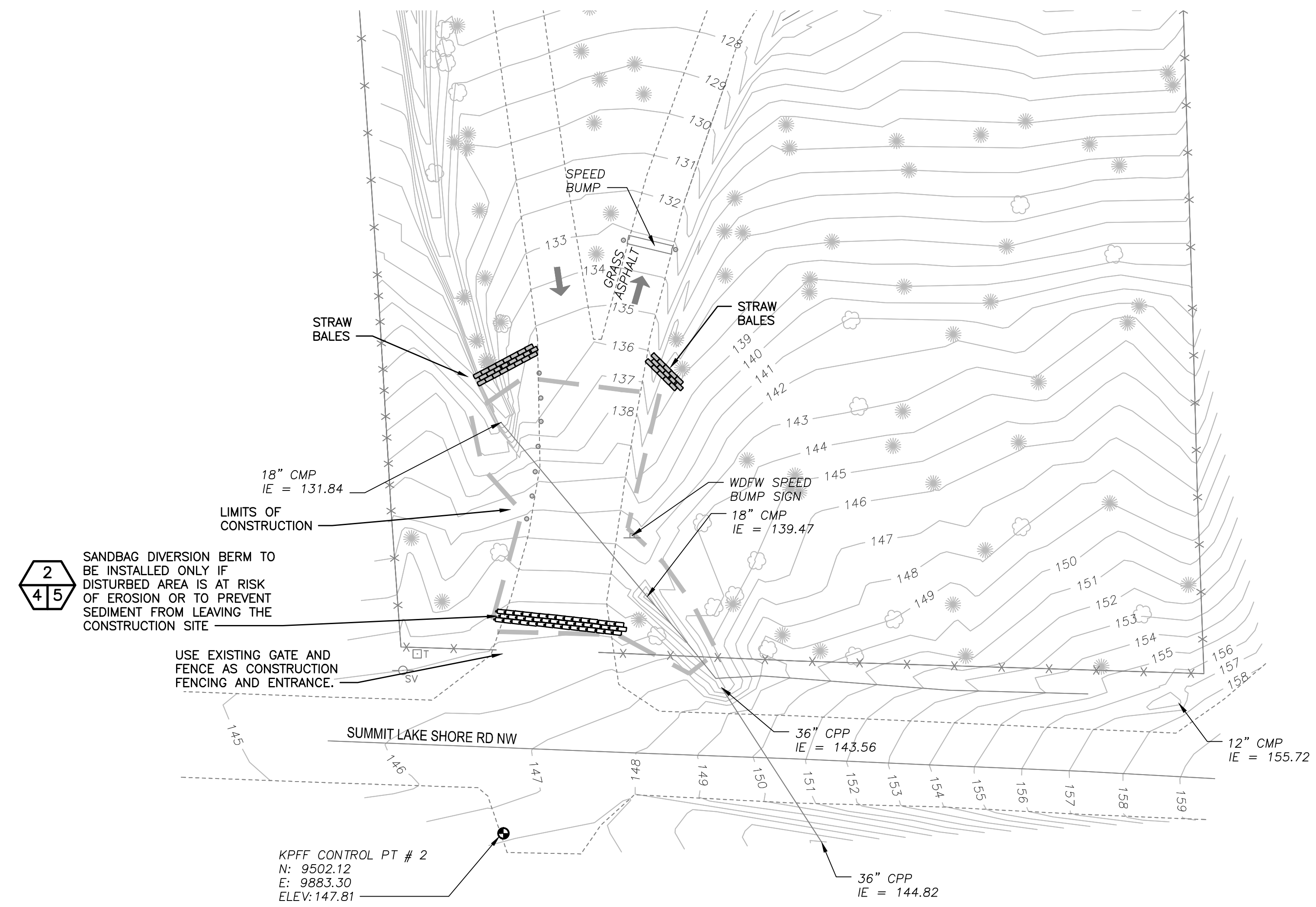
SUMMIT LAKE, ACCESS	
SITE RENOVATION GENERAL NOTES	

PROJECT NO. TN:A562:12-1	
SHEET 3	OF 10

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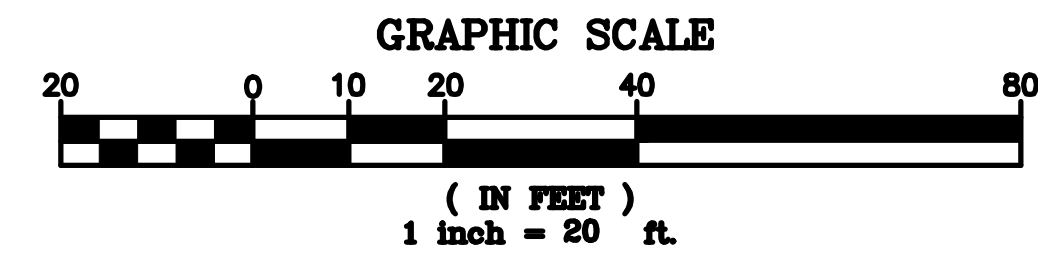
TESC PLAN - RAMP REPLACEMENT
SCALE: 1" = 20'



TESC PLAN - CULVERT REPLACEMENT
SCALE: 1" = 20'

EROSION AND SEDIMENTATION CONTROL (ESC) NOTES

- FOR THE PURPOSES OF TEMPORARY EROSION/SEDIMENTATION CONTROL ON THIS PROJECT THE TERM "SEDIMENT" SHALL INCLUDE SOIL SEDIMENTS AS WELL AS SAWDUST, CONCRETE, AND OTHER DEBRIS OR PARTICULATE MATTER RESULTING FROM CONSTRUCTION ACTIVITIES.
- ON-SITE EROSION CONTROL MEASURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL COMPLY WITH CONSTRUCTION STORMWATER PERMIT INCLUDING PREPARATION OF A STORMWATER POLLUTION PREVENTION PLAN AND IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. ANY PROBLEMS OCCURRING BEFORE FINAL ACCEPTANCE OF THE PROJECT SHALL BE CORRECTED BY THE CONTRACTOR.
- IN THE EVENT THAT EROSION OR SEDIMENTATION OCCURS ON ADJACENT PROPERTY, ALL CONSTRUCTION WORK THAT WILL AGGRAVATE THE SITUATION MUST CEASE AND THE CONTRACTOR SHALL IMMEDIATELY COMMENCE RESTORATION OR MITIGATION MEASURES. RESTORATION ACTIVITY SHALL CONTINUE UNTIL SUCH TIME AS THE PROBLEM IS RECTIFIED.
- ALL EROSION AND SEDIMENTATION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO THE FIRST STAGE OF SITE PREPARATION.
- SHOULD THE TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES NOT PROVE ADEQUATE TO CONTROL EROSION AND SEDIMENTATION, THE CONTRACTOR SHALL INSTALL ADDITIONAL FACILITIES, AS NECESSARY, TO PROTECT ADJACENT PROPERTIES, SENSITIVE AREAS, NATURAL WATER COURSES AND/OR STORM DRAINAGE SYSTEMS.
- IN ANY AREA WHICH HAS BEEN STRIPPED OF VEGETATION OR EXPERIENCED LAND DISTURBING ACTIVITIES, AND WHERE NO FURTHER WORK IS ANTICIPATED FOR A PERIOD EXCEEDING 48 HRS, ALL DISTURBED AREAS MUST BE IMMEDIATELY STABILIZED WITH MULCHING, GRASS PLANTING OR APPROVED EROSION CONTROL TREATMENT APPLICABLE TO THE TIME OF YEAR IN QUESTION.
- ALL NECESSARY FACILITIES SHALL BE MAINTAINED ON-SITE TO PREVENT DEBRIS, DUST AND MUD FROM ENTERING AND/OR ACCUMULATING IN THE PUBLIC RIGHT-OF-WAY OR SUMMIT LAKE.
- THE ESC FACILITIES SHOWN ON THIS SHEET ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS DURING THE CONSTRUCTION PERIOD. THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT ENTER SUMMIT LAKE OR LEAVE THE SITE.
- THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY OR AS DIRECTED BY THE ENGINEER TO ENSURE THEIR CONTINUED FUNCTIONING.
- THE ESC FACILITIES ON INACTIVE AREAS OF THE SITE SHALL BE CONTINUOUSLY MAINTAINED AND INSPECTED A MINIMUM OF ONCE A MONTH OR WITHIN 48 HOURS FOLLOWING A MAJOR STORM EVENT.
- THE CONTRACTOR SHALL PROTECT STOCKPILE AND EXCAVATION AREAS FROM THE RELEASE OF SEDIMENT. STOCKPILES SHALL BE COVERED AT ALL TIMES WHILE NOT IN USE TO KEEP THE STORED MATERIAL DRY.
- SANDBAGS, GEOFABRIC AND/OR OTHER METHODS SHALL BE USED AROUND STOCKPILE AND EXCAVATION AREAS TO PREVENT RUNOFF OF SEDIMENTS.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROLS SHALL REMAIN UNTIL FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY CONTROLS ARE NO LONGER NEEDED, WHICHEVER IS LATER. TRAPPED SEDIMENT SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.

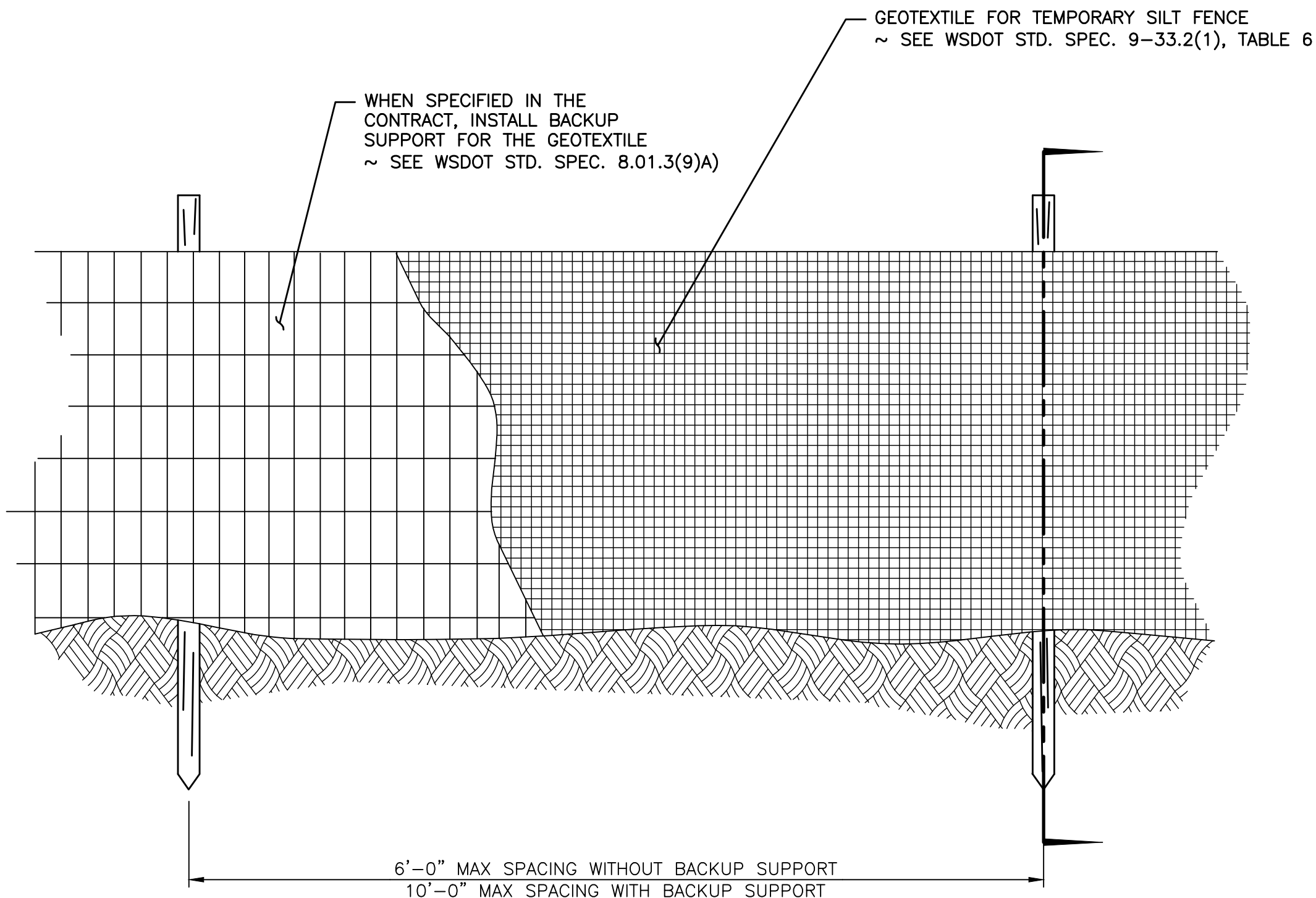


 2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396-0150 Fax (253) 396-0162	WASHINGTON STATE DEPARTMENT OF FISH AND WILDLIFE						0" = 1" BAR MEASURES ONE INCH ON ORIGINAL DRAWINGS		SUMMIT LAKE, ACCESS		PROJECT NO. TN:A562:12-1	
									SITE RENOVATION		SHEET OF	
									TEMPORARY EROSION & SEDIMENTATION CONTROL PLAN		4 10	
			SYM	DATE	REVISION DESCRIPTION	BY	DESIGNED BY MRK	CHECKED BY SWK				
			APPROVED AND RELEASED FOR CONSTRUCTION				DRAWN BY MRK					
			CHIEF ENGINEER DATE:				DATE 01/31/13					
			PROGRAM DATE:									

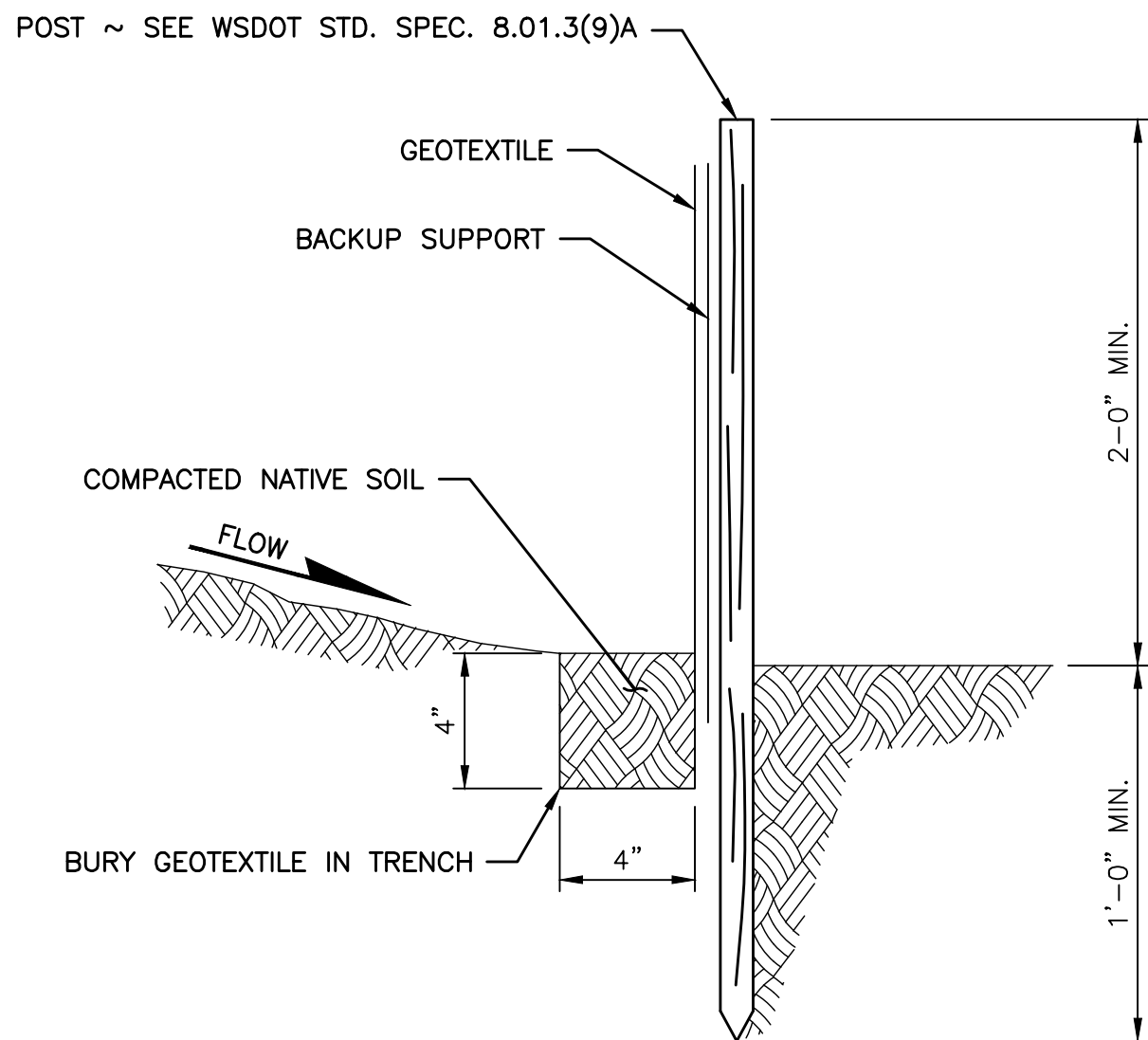
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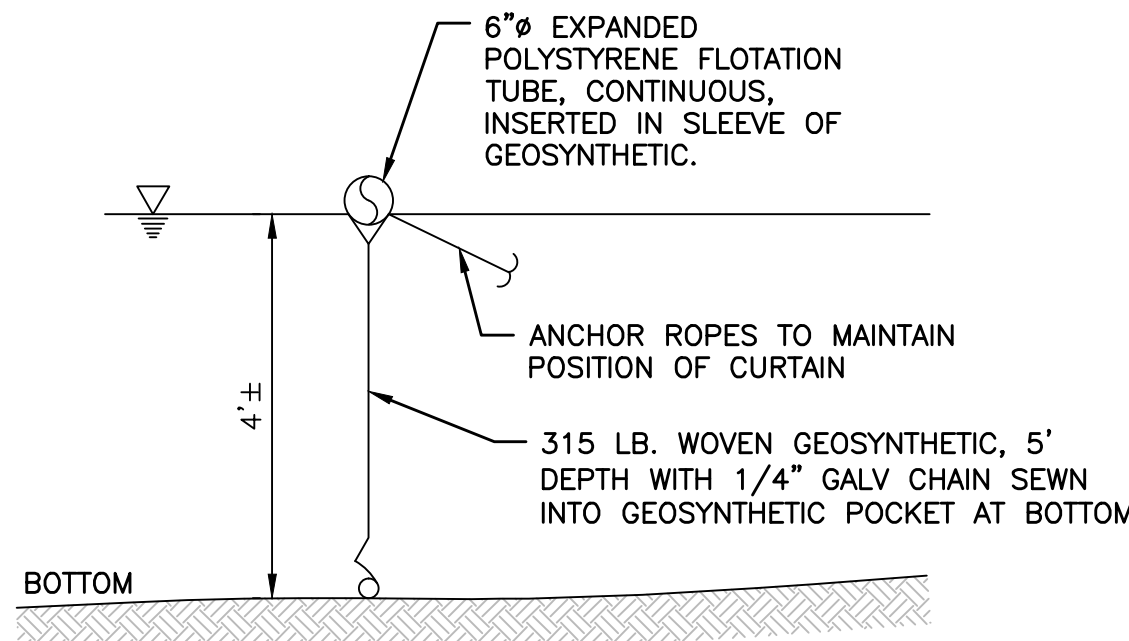
1. MAXIMIZE DETENTION OF STORMWATER BY PLACING FENCE AS FAR AWAY FROM TOE OF SLOPE AS POSSIBLE WITHOUT ENCRoACHING ON SENSITIVE AREAS OR OUTSIDE OF THE CLEARING BOUNDARIES.
2. INSTALL SILT FENCING ALONG CONTOURS WHENEVER POSSIBLE.
3. INSTALL THE ENDS OF THE SILT FENCE TO POINT SLIGHTLY UP-SLOPE TO PRE-VENT SEDIMENT FROM FLOWING AROUND THE ENDS OF THE FENCE.
4. PERFORM MAINTENANCE IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATIONS 8.01.3(9)A AND 8.01.3(15).



ELEVATION VIEW



SECTION



NOTES:

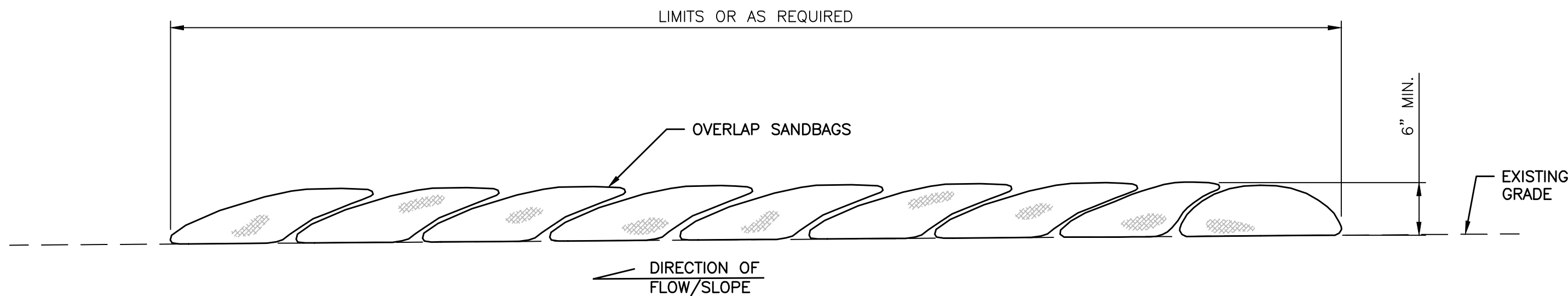
1. SILT CURTAIN AVAILABLE FROM NORTHWEST LININGS, KENT, WA.
2. GEOSYNTHETIC SHALL BE PERMEATEX 2315 OR EQUAL.
3. SEE PERMITS PRIOR TO INSTALLATION.

TURBIDITY CURTAIN
NOT TO SCALE

SILT FENCE ELEVATION

NOT TO SCALE

1
4/5



NOTES:

1. SANDBAGS OF EITHER BURLAP OR WOVEN GEOTEXTILE FABRIC ARE FILLED WITH GRAVEL AND SAND, LAYERED AND PACKED TIGHTLY.
2. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT.

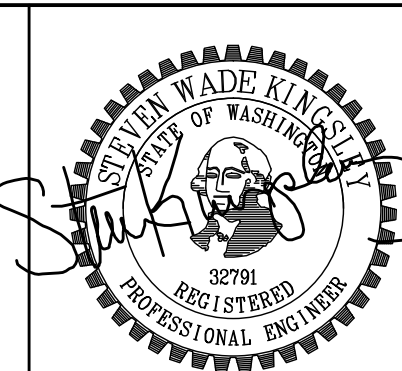
SANDBAG DIVERSION BERM DETAIL

NOT TO SCALE

2
4/5

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2407 North 31st Street, Suite 100
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(253) 396-0150
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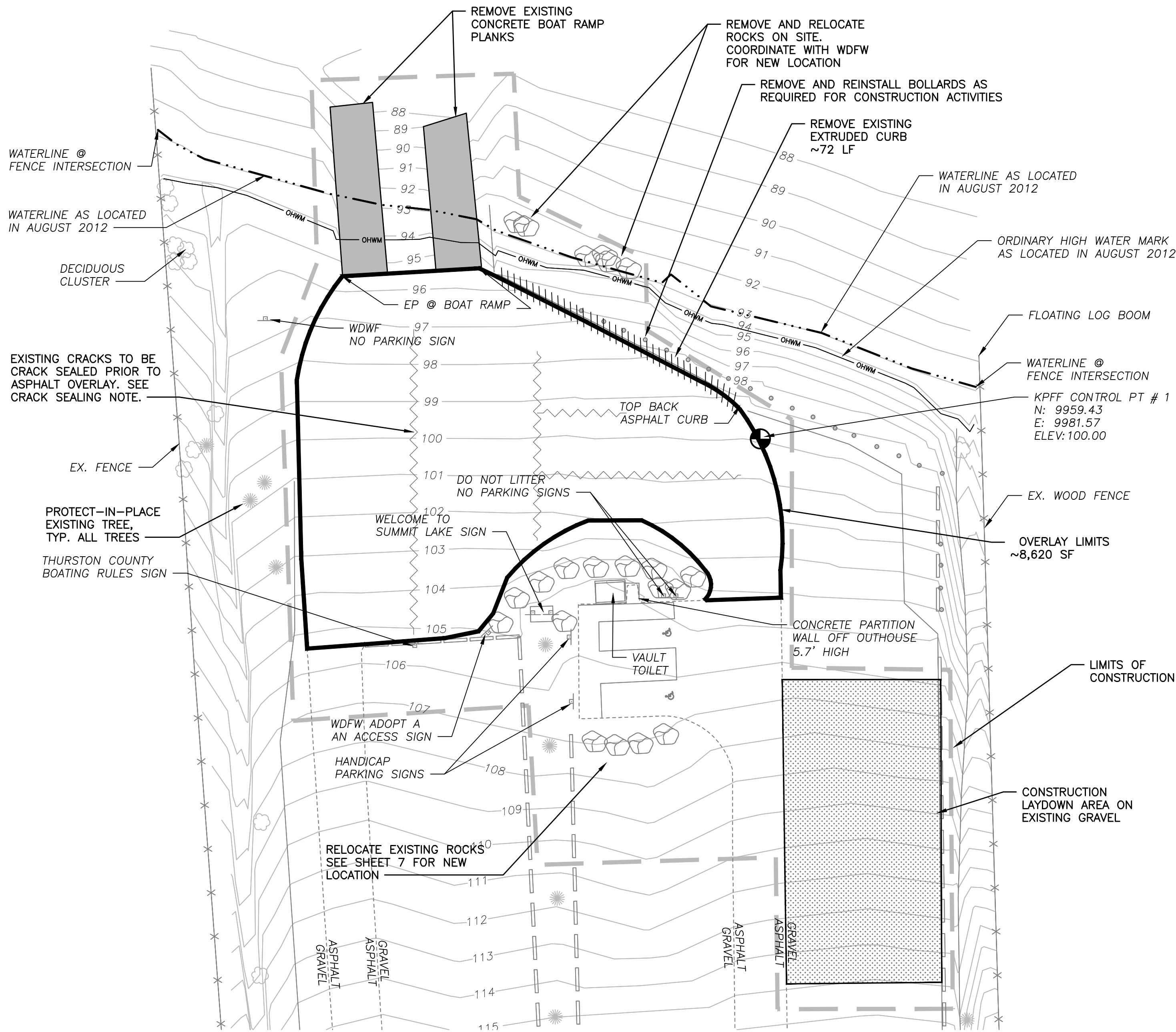
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CHIEF ENGINEER		DATE:	
PROGRAM		DATE:	
DESIGNED BY MRK			
CHECKED BY SWK			
DRAWN BY MRK			
DATE 01/31/13			

0 1"
BAR MEASURES
ONE INCH ON
ORIGINAL DRAWINGS

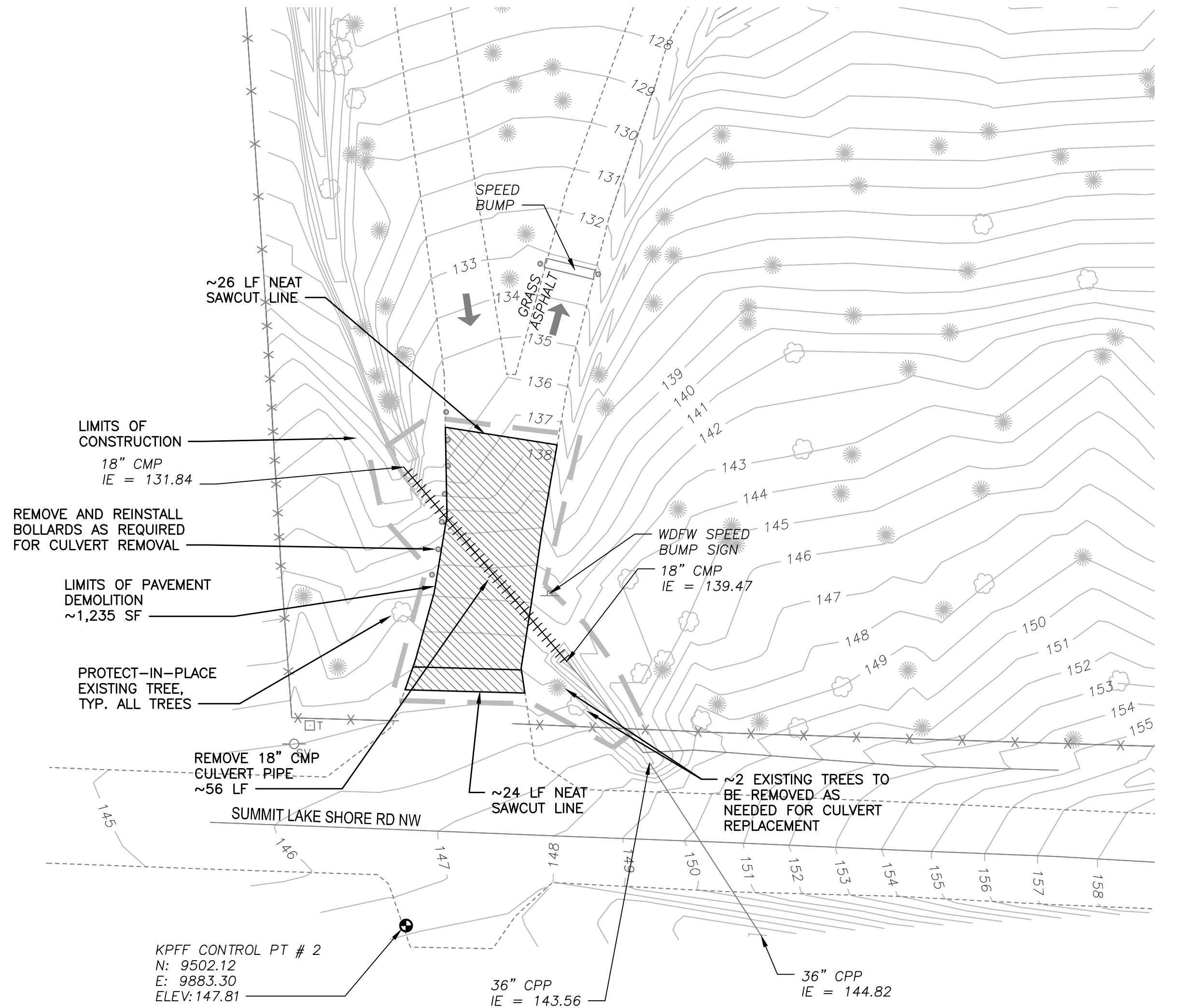
SUMMIT LAKE, ACCESS
SITE RENOVATION
TEMPORARY EROSION &
SEDIMENTATION CONTROL-NOTES & DETAILS

PROJECT NO.
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SHEET OF
5 10



DEMOLITION PLAN - RAMP REPLACEMENT
SCALE: 1" = 20'



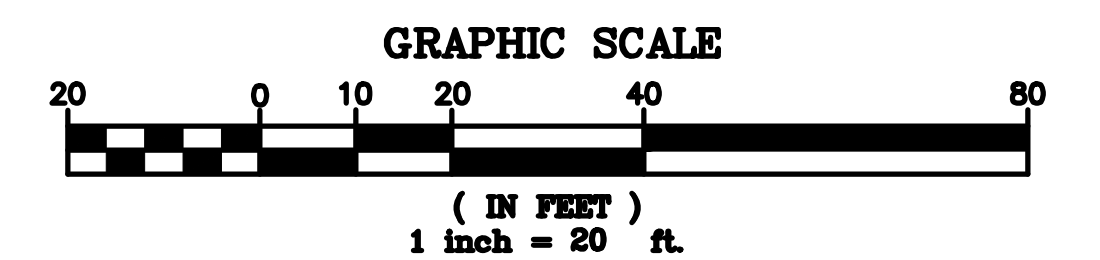
DEMOLITION PLAN - CULVERT REPLACEMENT
SCALE: 1" = 20'

CRACK SEALING NOTE:

1. CRACKS SHALL BE SEALED AND FULLY CURED PRIOR TO ASPHALT OVERLAY.
2. CONTRACTOR SHALL SEAL CRACKS AS IDENTIFIED ON THE PLANS AND ANY CRACKS WIDER THAN 1/4" WITHIN THE LIMITS OF ASPHALT OVERLAY AREA.
3. CRACK SEALING SHALL BE PER WSDOT SPECIFICATION 5-04.3(5)C-CRACK SEALING.

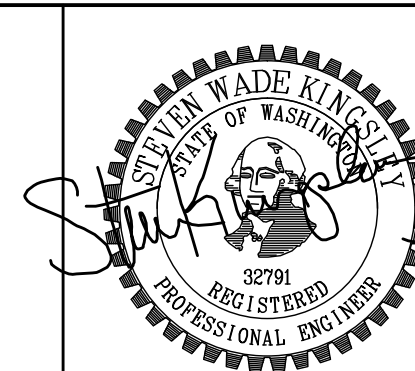
ALL CRACKS AND JOINTS 1/4" AND GREATER IN WIDTH SHALL BE CLEANED WITH A CHIPPING HAMMER, STIFF BRISTLED BROOM AND COMPRESSED AIR TO REMOVE ALL DIRT, DEBRIS AND LOOSE PAVEMENT MATERIAL; AND THEN SHALL BE FILLED COMPLETELY WITH SAND SLURRY.

THE SAND SLURRY SHALL CONSIST OF APPROXIMATELY 20 PERCENT CSS-1 EMULSIFIED ASPHALT, APPROXIMATELY 2 PERCENT PORTLAND CEMENT, WATER (IF REQUIRED), AND THE REMAINDER CLEAN NO. 4-0 PAVING SAND. THE COMPONENTS SHALL BE THOROUGHLY MIXED AND THEN POURED INTO THE CRACKS AND JOINTS UNTIL FULL. THE FOLLOWING DAY, ANY CRACKS OR JOINTS THAT ARE NOT THAT ARE NOT COMPLETELY FILLED SHALL BE TOPPED OFF WITH ADDITIONAL SAND SLURRY. AFTER THE SAND SLURRY IS PLACED, THE FILLER SHALL BE STRUCK OFF FLUSH WITH THE EXISTING PAVEMENT SURFACE AND ALLOWED TO CURE. THE HMA OVERLAY SHALL NOT BE PLACED UNTIL THE SLURRY HAS FULLY CURED.



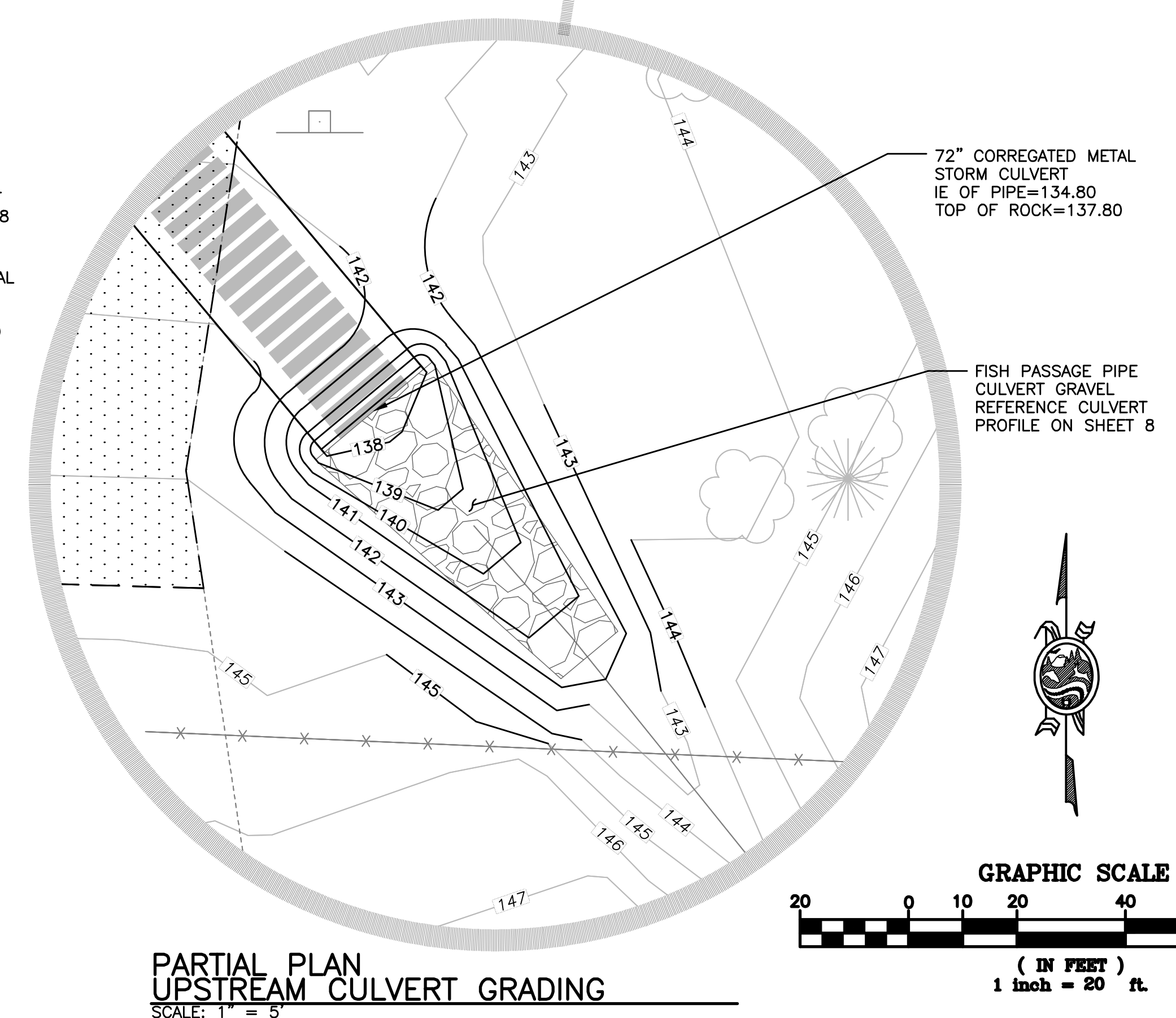
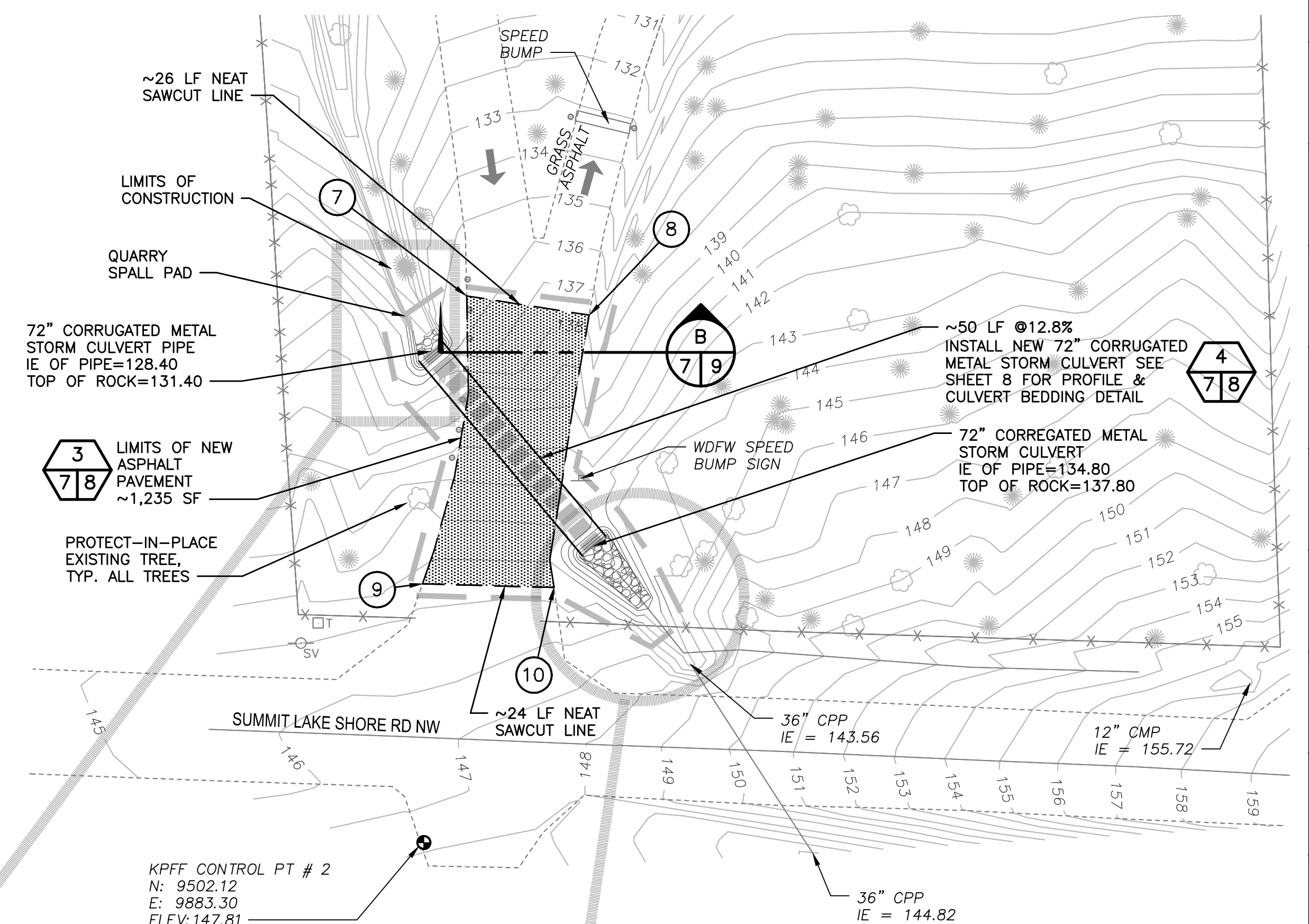
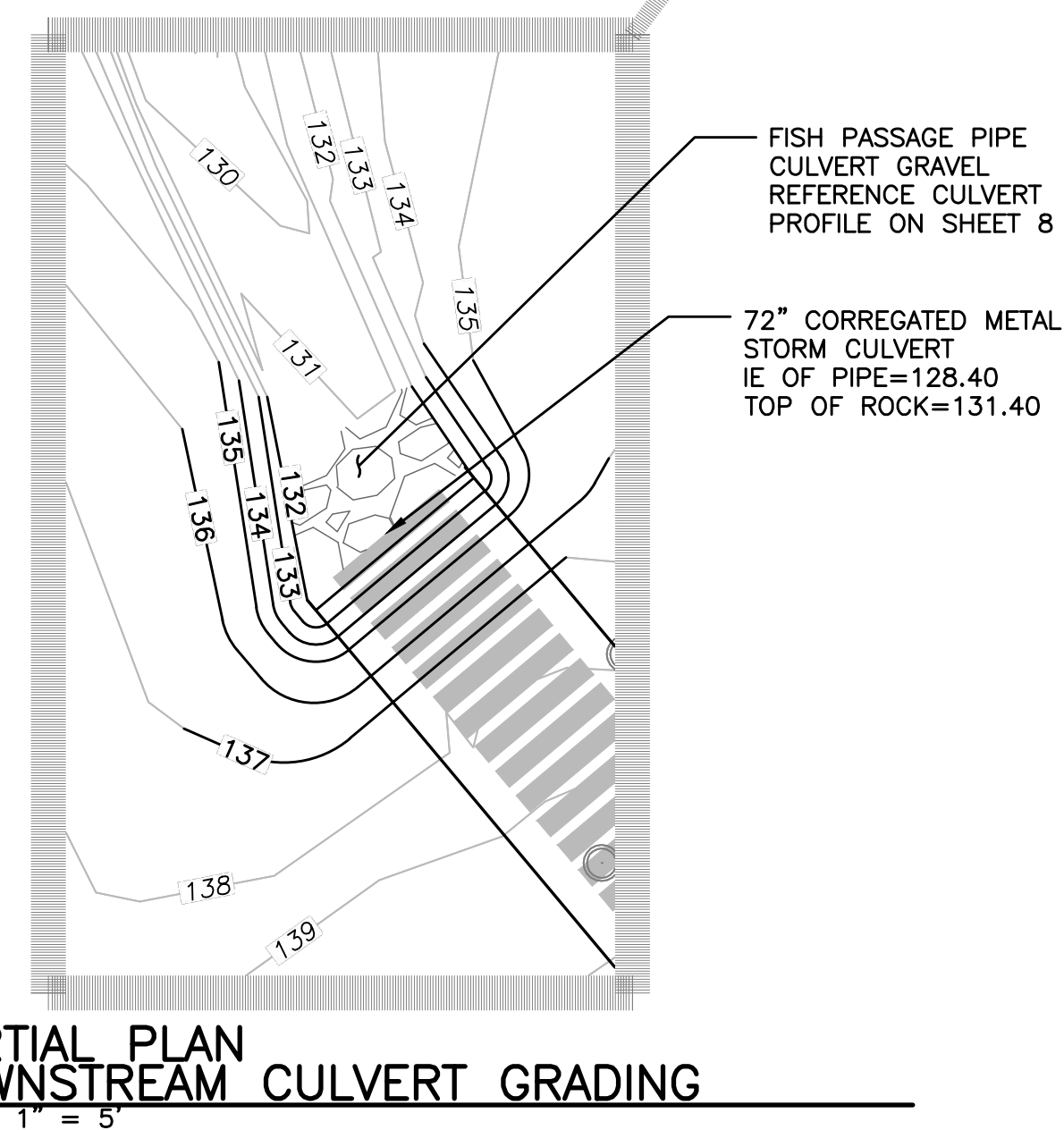
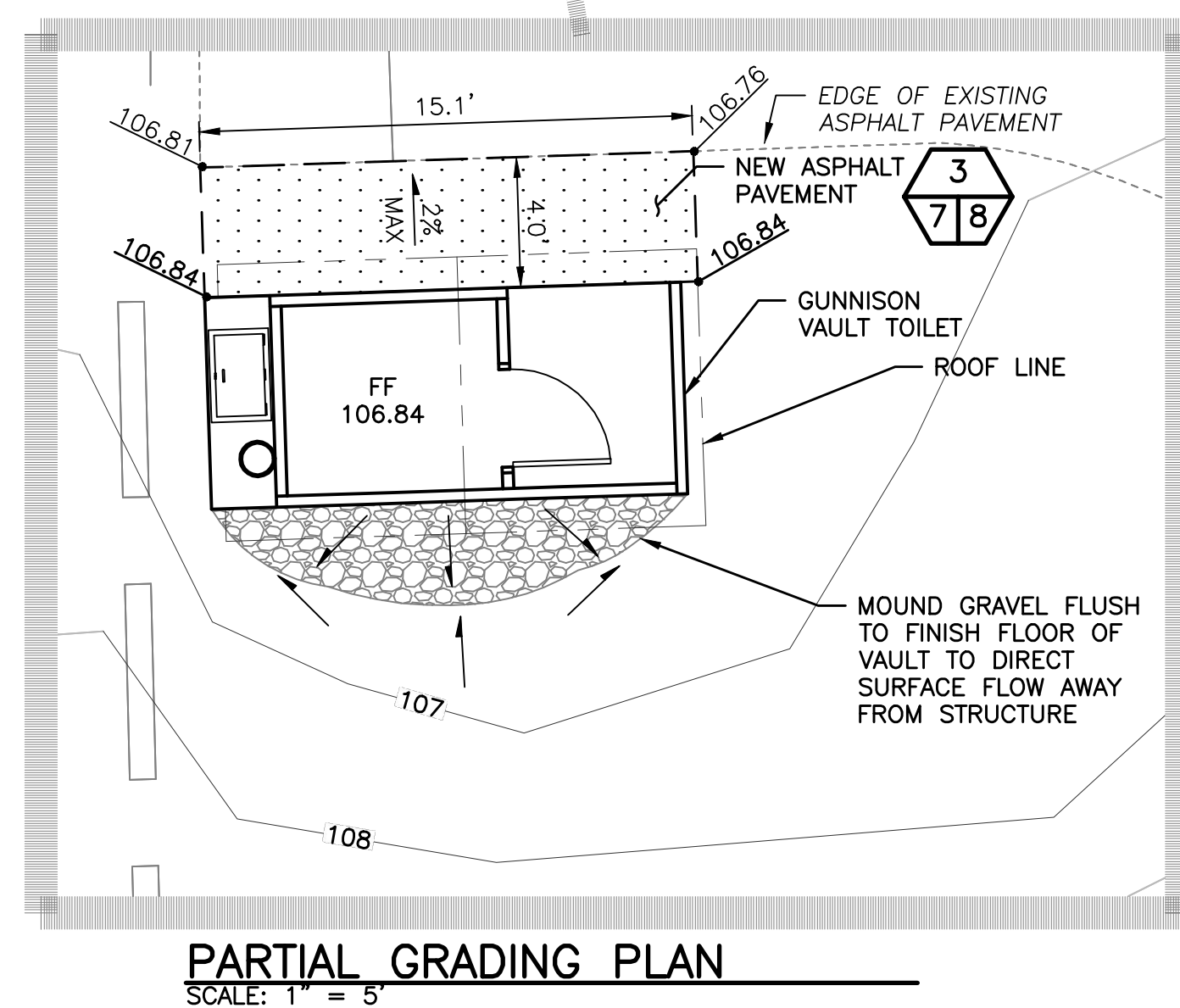
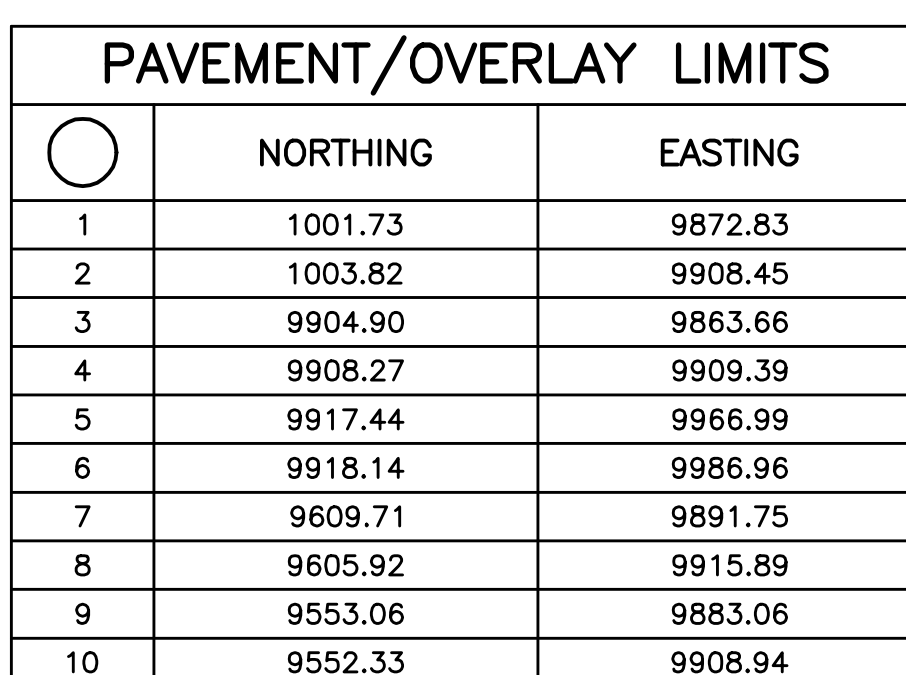
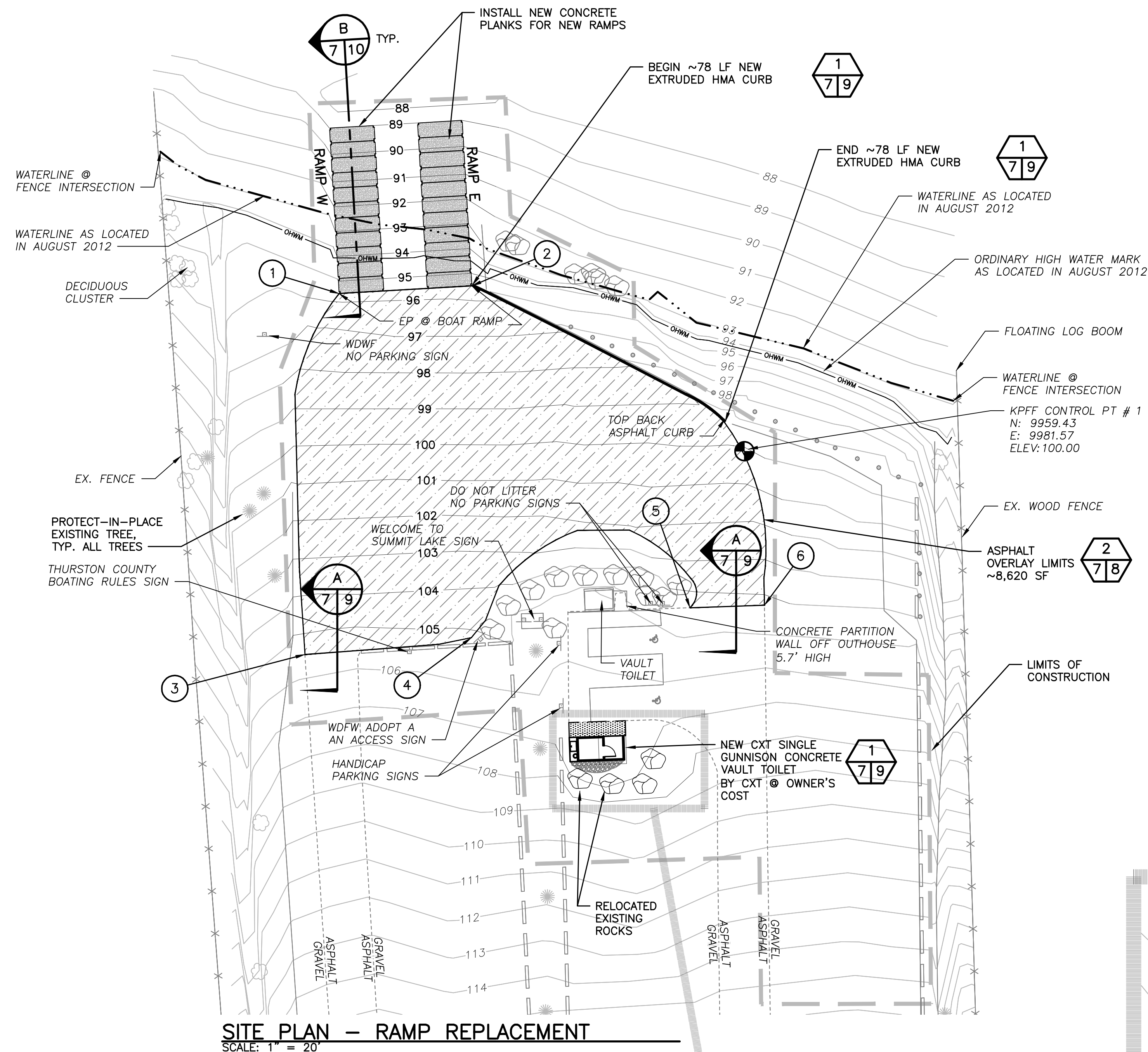
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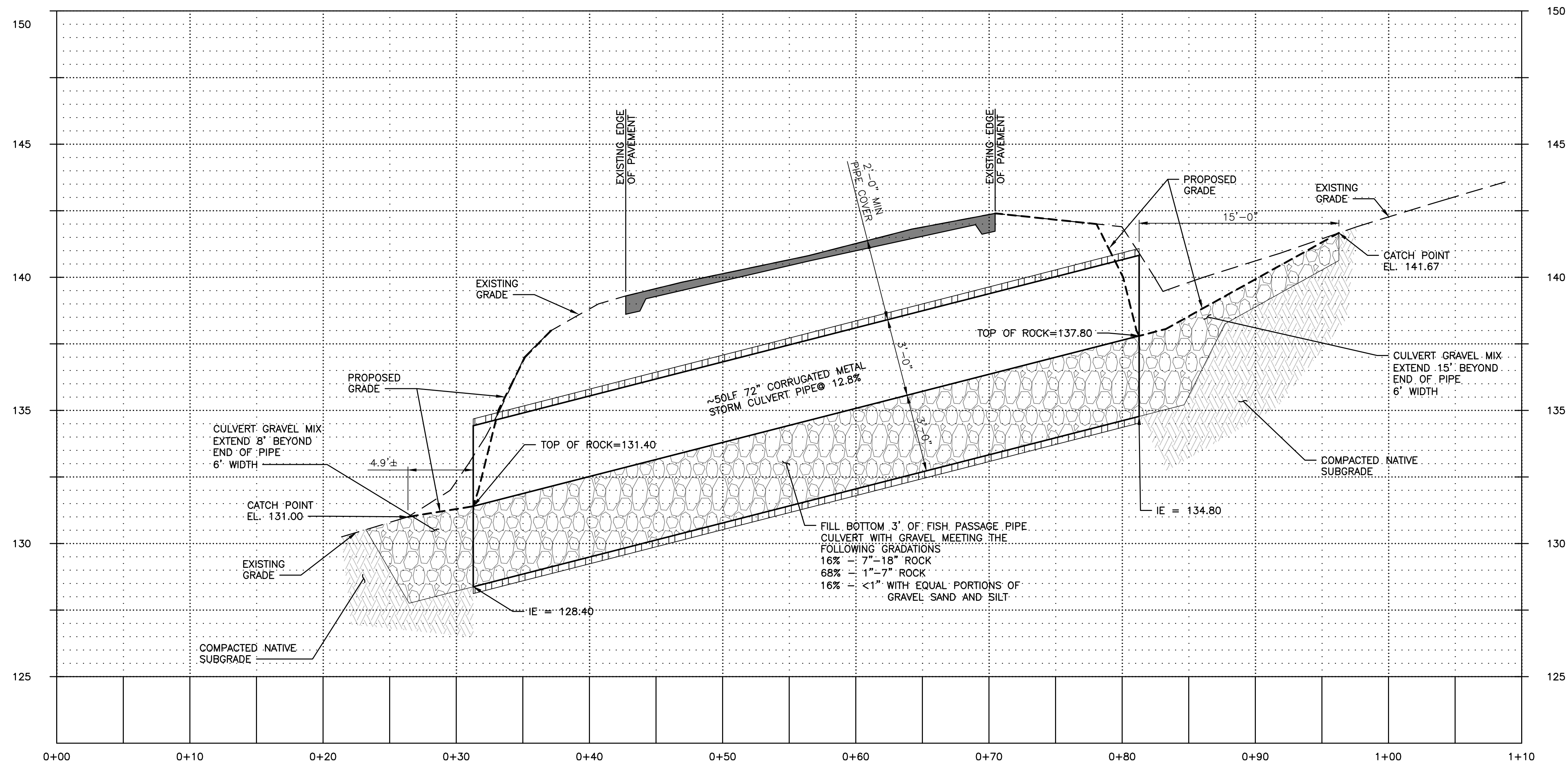
WASHINGTON STATE
DEPARTMENT OF FISH AND WILDLIFE



SYM	DATE	REVISION DESCRIPTION	BY
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		DRAWN BY	MRK
		DATE	01/31/13

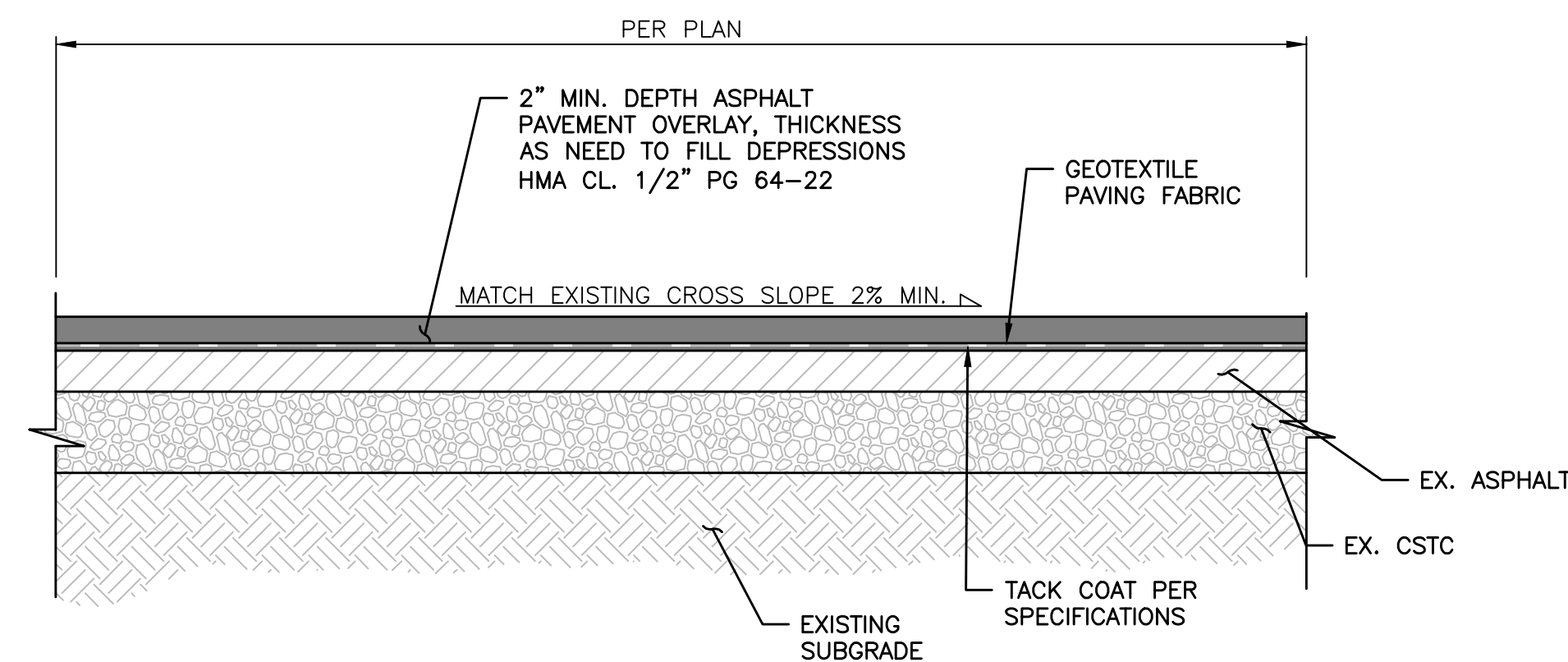
SUMMIT LAKE, ACCESS		PROJECT NO.	
SITE RENOVATION		TN:A562:12-1	
DEMOLITION PLAN		SHEET	OF
		6	10





PROFILE — 36" CULVERT PIPE

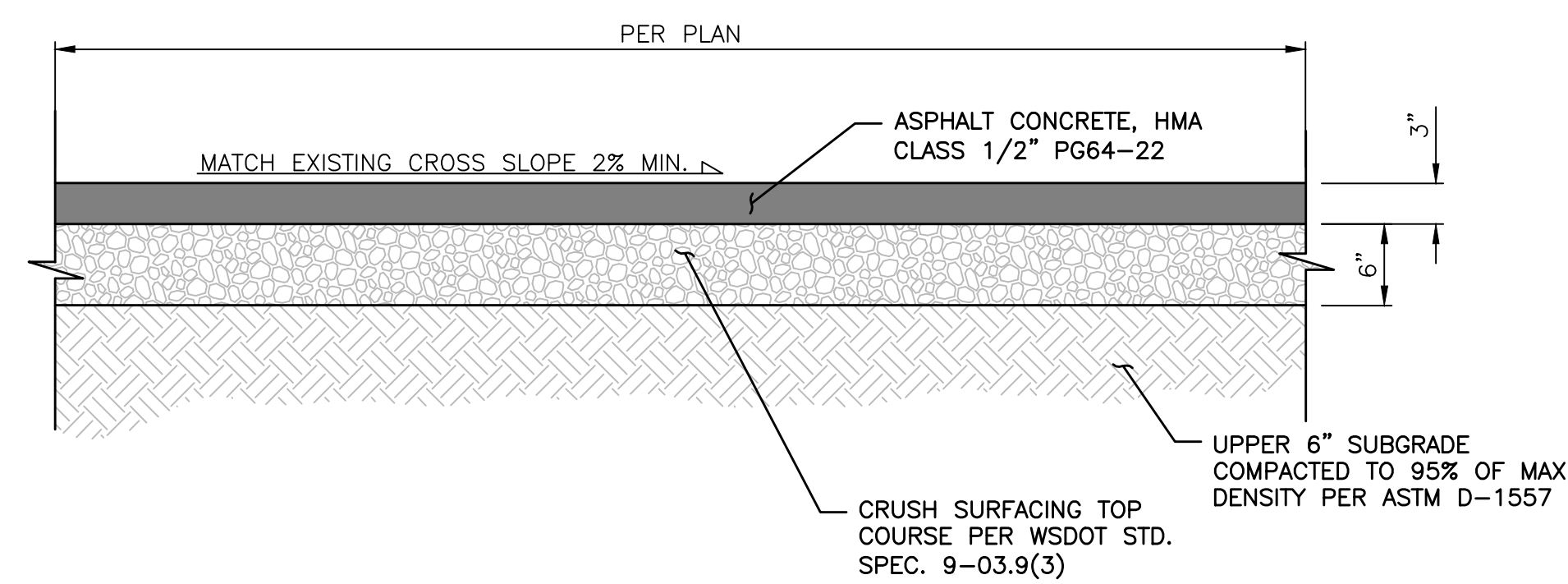
SCALE: 1" = 5' H
1" = 2.5' V



ASPHALT OVERLAY DETAIL

NOT TO SCALE

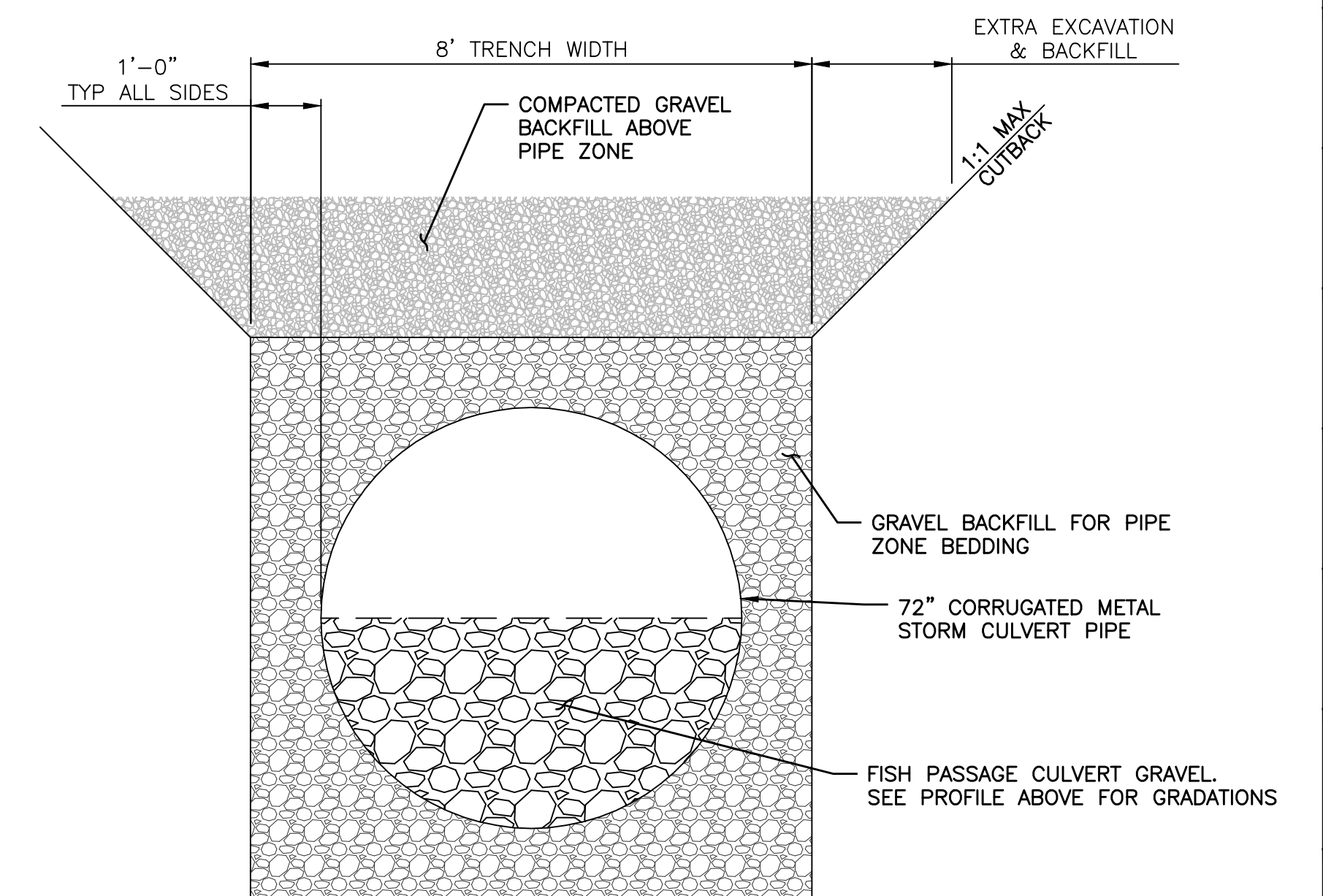
2
7/8



ASPHALT PAVING DETAIL

NOT TO SCALE

3
7/8



PIPE BEDDING DETAIL

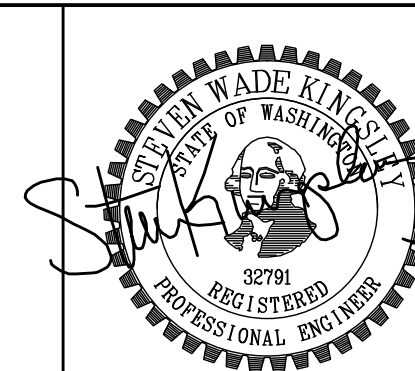
NOT TO SCALE

4
7/8

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XREF: XWDRAW_L1000 XSECT_CULVERT

kpf Consulting Engineers
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150
Fax (253) 396-0162

WASHINGTON STATE
DEPARTMENT OF FISH AND WILDLIFE

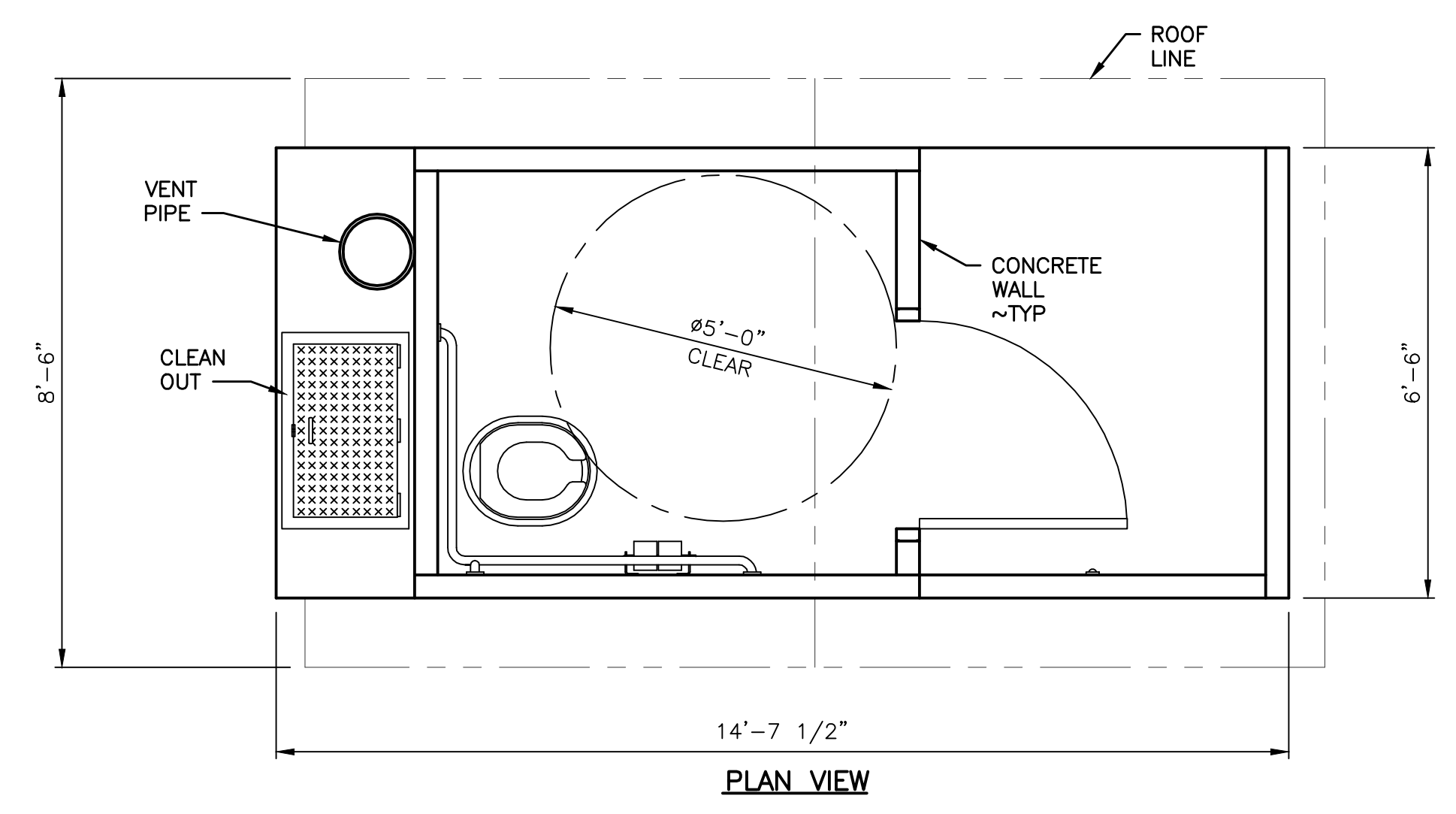
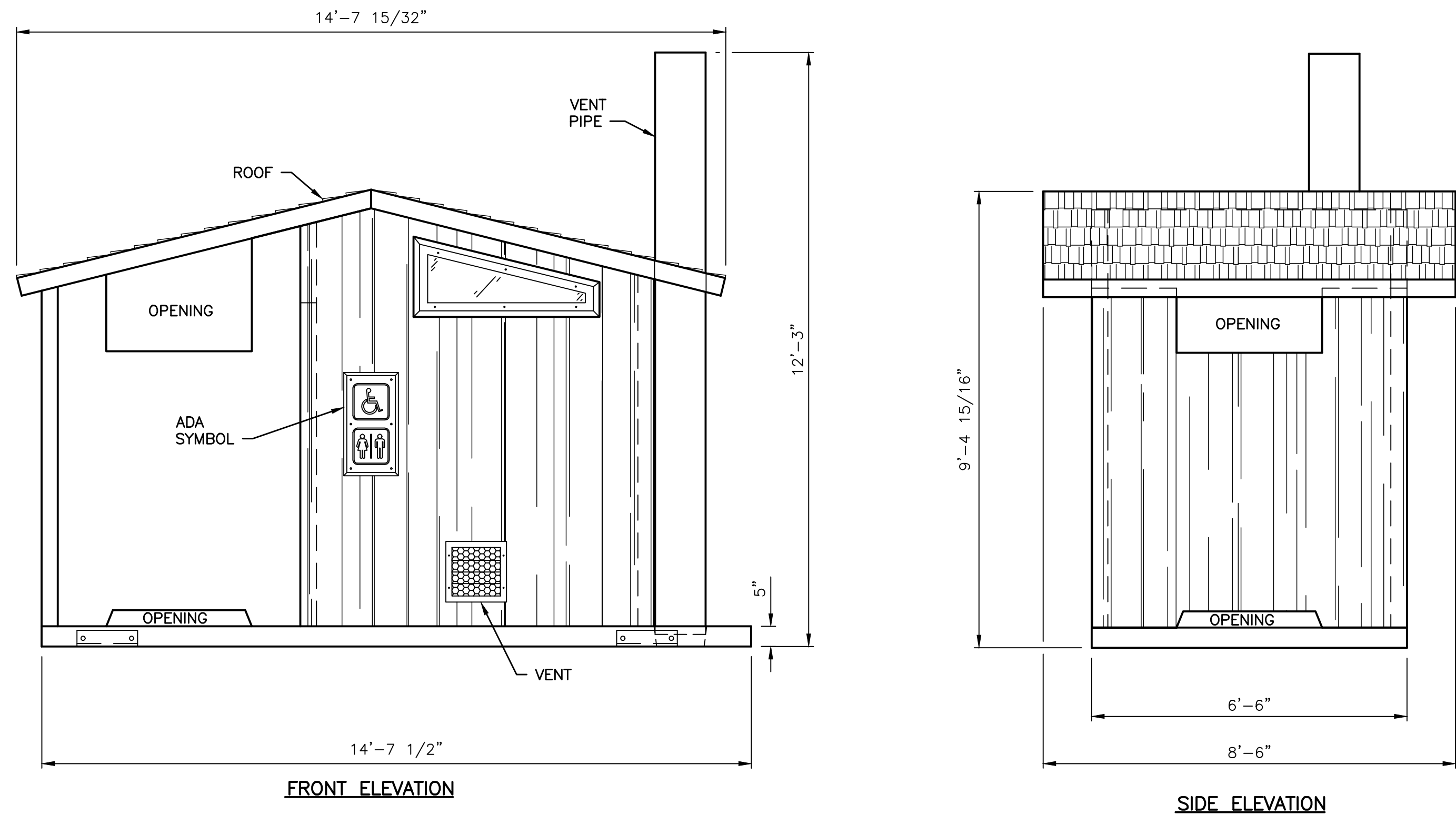


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CHIEF ENGINEER		DATE:	
PROGRAM		DATE:	

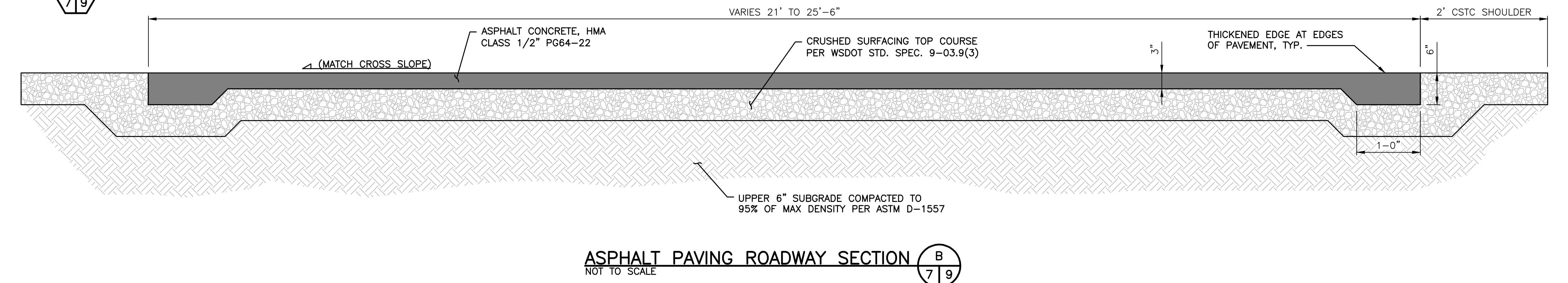
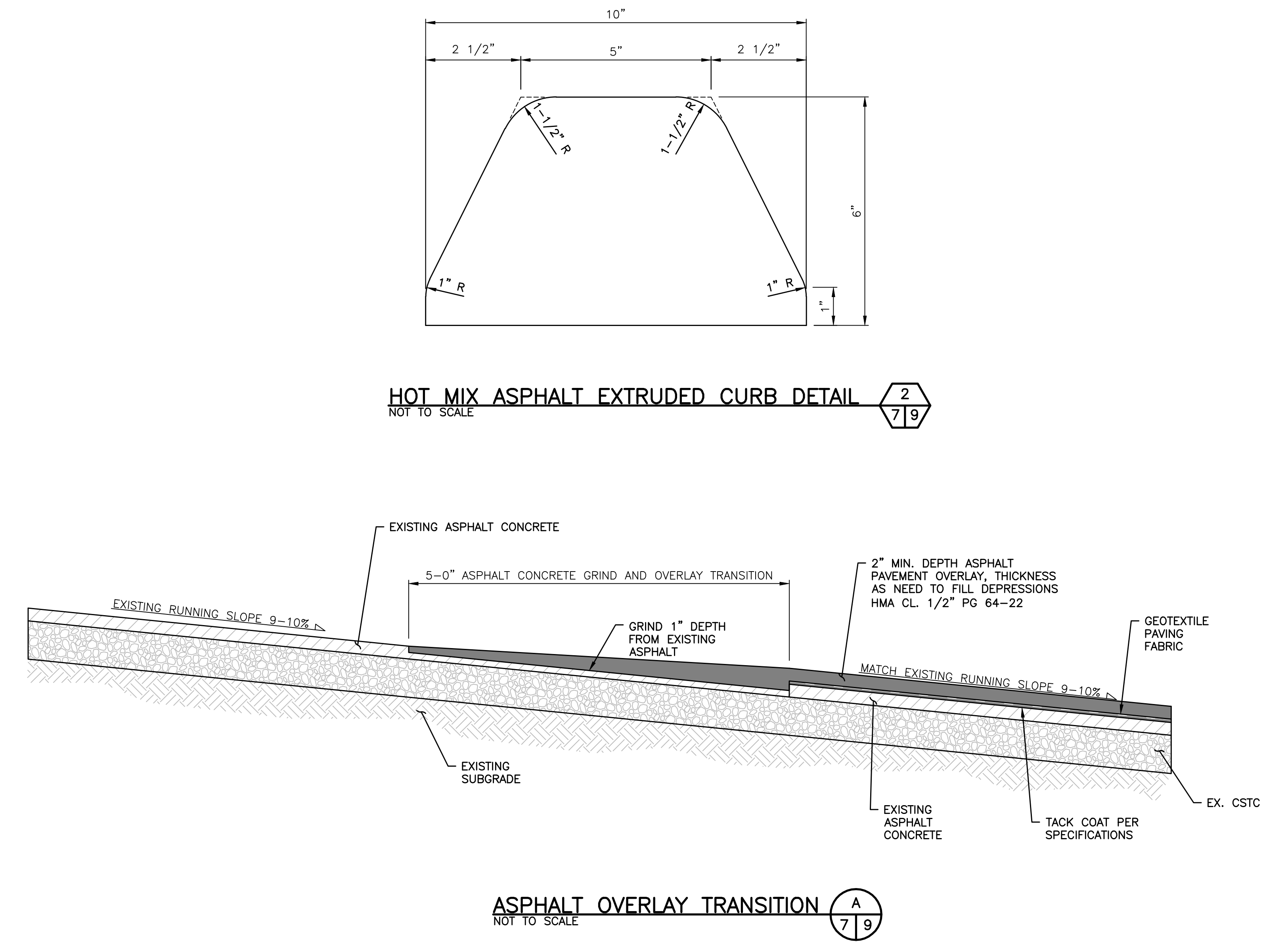
DESIGNED BY	MRK
CHECKED BY	SWK
DRAWN BY	MRK
DATE	01/31/13

SUMMIT LAKE, ACCESS
SITE RENOVATION
CULVERT PROFILE
& CIVIL DETAILS

PROJECT NO.
TN:A562:12-1
SHEET
8
OF
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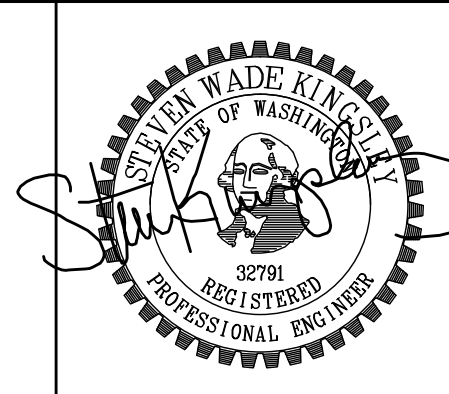


CTX GUNNISON VAULT TOILET
NOT TO SCALE



kpff Consulting Engineers
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150
Fax (253) 396-0162

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SYM	DATE	REVISION DESCRIPTION	BY
APPROVED AND RELEASED FOR CONSTRUCTION			
CHIEF ENGINEER	DATE:		
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DESIGNED BY	MRK
CHECKED BY	SWK
DRAWN BY	MRK
DATE	01/31/13

SUMMIT LAKE, ACCESS	
SITE RENOVATION	
CIVIL DETAILS	
SHEET	OF
9	10

PROJECT NO. TN:A562:12-1	
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Date: 01/31/13 10:00 AM By: mjulok
XREFS: XWDRAW_1.dwg



1. EXCAVATE RAMP PROFILE TO SUBRAGE ELEVATIONS. TYPICAL RAMP SLOPE SHALL BE BETWEEN 12% AND 15% AS SHOWN IN SECTION.
2. INSTALL GEOTEXTILE AND CRUSHED BASE COURSE.
3. PLACE 4" OF 1 1/4" CLEAN COMPACTED CRUSHED ROCK.
4. CONNECT ANCHORS TO CONNECTION PLATES TO CREATE CONNECTION PLATE ASSEMBLY.
5. PLACE STEEL BAR ON CRUSHED ROCK FOR TEMPORARY GUIDE TRACK.
6. LAY FIRST TWO PLANKS AT WATER'S EDGE AND FASTEN TOGETHER WITH CONNECTION PLATE ASSEMBLY.
7. PUSH PLANKS INTO WATER. CONNECT SUBSEQUENT PLANKS AND CONTINUE TO PUSH RAMP UNTIL FINAL END IS REACHED.
8. ASSEMBLE REMAINING PLANKS ABOVE WATER.

